(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 8 January 2004 (08.01.2004)

PCT

(10) International Publication Number WO 2004/002925 A2

(51) International Patent Classification7:

C07C

(21) International Application Number:

PCT/KR2003/001244

(22) International Filing Date:

25 June 2003 (25.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10-2002-0036051

26 June 2002 (26.06.2002) K

(71) Applicant (for all designated States except US): KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY [KR/KR]; 100 Jang-dong, Yusung-gu, Daejeon 305-343 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KIM, Dae Whang [KR/KR]; 510-301 Yeolmaemaul Apt., 877 Jijok-dong, Yusung-gu, Daejeon 305-330 (KR). CHUNG, Kun Hoe [KR/KR]; 9-102 Town House, Doryong-dong, Yusung-gu, Daejeon 305-340 (KR). CHANG, Hae Sung [KR/KR]; 105-201 Hanbit Apt., 99 Uheun-dong, Yusung-gu, Daejeon 305-333 (KR). KO, Young Kwan [KR/KR]; 102-1702 Hanbit Apt., 99 Uheun-dong, Yusung-gu, Daejeon 305-333 (KR). RYU, Jae Wook [KR/KR]; 120-305 Hanbit Apt., 99 Uheun-dong, Yusung-gu, Daejeon 305-333 (KR). WOO, Jae Chun [KR/KR]; 110-603 Kyungnam

Apt., 205 Doma-2dong, Seo-gu, Daejeon 302-162 (KR). KOO, Dong Wan [KR/KR]; 128-604 Hanbit Apt., 99 Uheun-dong, Yusung-gu, Daejeon 305-333 (KR).

- (74) Agent: HUH, Sang-Hoon; 16th Fl., Woori Investment Bank Bldg., 826-20, Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.